Enclosure 1

APPROVED TMDLS
Ninemile Creek TMDL Planning Area

11 pollutant TMDLs completed
0 determinations that no pollutant TMDL is needed
2 pollutant TMDLs yet to be developed/studied

Waterbody Name*	TMDL Parameter/ Pollutant	Water Quality Goal/Endpoint	TMDL	WLA LA	Supporting Documentation (not an exhaustive list of supporting documents)
Big Blue Creek* MT76M004-050 *1996 - Other habitat alterations*	Not Impaired	No TMDL necessary			Water Quality Restoration Plan and Total Maximum Daily Loads for the Ninemile Planning Area; January 2005; Montana DEQ
Josephine Creek* MT76M004-040 *1996 - Other habitat alterations*	Siltation	% fines < 6 mm 6-36% D50 25-51 mm Riffle Stability Index 45-85 Clinger Richness ≥14	54.8 tons sediment/year or 92.8% reduction	WLA = 0 LA = 42.4 tons (background) 12.4 tons (roads) 0 tons (mining)	" "
Little McCormick Creek* MT76M004-080 *1996 - Other habitat alterations/ flow alterations*	Siltation	% fines < 6 mm 6-36% D50 25-51 mm Riffle Stability Index 45-85 Clinger Richness ≥14	TMDL addressed in Lower McCormick Creek to cover entire watershed	see Lower McCormick Creek	" "
Upper McCormick Creek MT76M004-032 *1996 - Other habitat alterations*	Not Impaired	No TMDL necessary			" "
Lower McCormick Creek* MT76M004-031 *1996,2002 - Other habitat alterations*	Siltation	% fines < 6 mm 6-36% D50 25-51 mm Riffle Stability Index 45-85 Clinger Richness ≥14	164.5 tons sediment/year or 92.2% reduction (entire McCormick Creek Watershed)	WLA = 0 LA = 102.5 tons (background) 62 tons (roads) 0 tons (mining)	" "
	Thermal Mod.**	Further study needed.			" "

Waterbody Name*	TMDL Parameter/ Pollutant	Water Quality Goal/Endpoint	TMDL	WLA LA	Supporting Documentation (not an exhaustive list of supporting documents)
Kennedy Creek* MT76M004-070 *1996 - metals, siltation* *2002 - dewatering, flow alteration, metals, other habitat alterations* *2004 - metals, flow alteration, other habitat alteration*	siltation	<u>For B4 Channel</u> % fines < 6 mm 6-36% D50 25-51 mm Riffle Stability Index 45-85 Clinger Richness ≥14 <u>For A3 Channel</u> % fines < 6 mm 6.5-23.1% D50 74-140 mm Riffle Stability Index NA Clinger Richness ≥14	49.9 tons sediment/year or 93.8% reduction	WLA = 0 LA = 42.4 tons (background) 7.5 tons (roads) 0 tons (mining)	" "
	Copper	5.2 ug/l (low flow) 2.9 ug/l (high flow)	0.0090 lbs/day at low flow and 0.027 lbs/day at high flow	WLA = 0 LA = 0% reduction (low flow) 3.3% reduction (high flow)	" "
	Lead	1.3 ug/l (low flow) 0.5 ug/l (high flow)	0.0022 lbs/day at low flow and 0.0046 lbs/day at high flow	WLA = 0 LA = 36% reduction (low flow) 0% reduction (high flow)	" "
	Zinc	67 ug/l (low flow) 37 ug/l (high flow)	0.12 lbs/day at low flow and 0.34 lbs/day at high flow	WLA = 0 LA = 0% reduction (low flow) 74% reduction (high flow)	" "
	Mercury	0.05 ug/l (all flows)	0.000086 at low flow and 0.00046 at high flow	WLA =0 LA = 0% for low flow unknown for high flow	" "

Waterbody Name*	TMDL Parameter/ Pollutant	Water Quality Goal/Endpoint	TMDL	WLA LA	Supporting Documentation (not an exhaustive list of supporting documents)
Stony Creek* MT76M004-020 *1996 - other habitat alteration, siltation*	Siltation	<u>For B4 Channel</u> % fines < 6 mm 6-36% D50 25-51 mm Riffle Stability Index 45-85 Clinger Richness ≥14 <u>For B3 Channel</u> % fines < 6 mm 2-18% D50 50-112 mm Riffle Stability Index 45-85 Clinger Richness ≥14	55.9 tons sediment/year or 28.8% reduction	WLA = 0 LA = 48.8 tons (background) 7.1 tons (roads)	" "
Cedar Creek* MT76M004-060 *1996 - other habitat alteration*	Siltation	% fines < 6 mm 6-36% D50 25-51 mm Riffle Stability Index 45-85 Clinger Richness ≥14	55.6 tons sediment/year or 60.9% reduction	WLA = 0 LA = 36.6 tons (background) 10 tons (roads) 0 tons (harvest) 9 tons (bank erosion)	" "
Ninemile Creek* MT76M004-010 *1996, 2002, 2004 - other habitat alteration, siltation*	Siltation	<u>For C3 Channel</u> % fines < 6 mm 6-18% D50 49-113 mm Riffle Stability Index 45-85 Clinger Richness ≥14 <u>For C4 Channel</u> % fines < 6 mm 12-32% D50 22-46 mm Riffle Stability Index 45-85 Clinger Richness ≥14	2,868 tons sediment/year or 74.3% reduction	WLA = 0 LA = 1347 tons (background) 368 tons (roads) 3 tons (fire) 0 tons (harvest) 1150 tons (agriculture) 0 tons (mining)	" "
	Thermal Mod.**	Further study needed.			" "

* An asterisk indicates the waterbody has been included on the State's Section 303(d) list of waterbodies in need of TMDLs.
Thesewater bodies have never been listed for the pollutants marked by "". However, potential impairment issues were identified throughout the course of preparing the Water Quality Restoration Plan. Further study is proposed to determine if, in fact, a TMDL is necessary.